2SB1218G

Silicon PNP epitaxial planar type

For general amplification Complementary to 2SD1819G

Features

- \bullet High forward current transfer ratio $h_{F\!E}$
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings $T_a = 25^{\circ}C$

a							
Parameter	Symbol	Rating	Unit				
Collector-base voltage (Emitter open)	V _{CBO}	-45	V				
Collector-emitter voltage (Base open)	V _{CEO}	-45	V				
Emitter-base voltage (Collector open)	V _{EBO}	-7	V				
Collector current	I _C	-100	mA				
Peak collector current	I _{CP}	-200	mA				
Collector power dissipation	P _C	150	mW				
Junction temperature	Tj	150	°C				
Storage temperature	T _{stg}	-55 to +150	°C				

Package

- Code
- SMini3-F2
- Marking Symbol: B
- Pin Name
 - 1. Base
 - 2. Emitter
 - 3. Collector

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{C} = -10 \ \mu A, I_{E} = 0$	-45			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-45			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \ \mu A, \ I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_B = 0$			-100	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$	160		460	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$		- 0.3	- 0.5	V
Transition frequency	f _T	$V_{CB} = -10$ V, $I_E = 1$ mA, $f = 200$ MHz		80		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.7		pF
(Common base, input open circuited)						

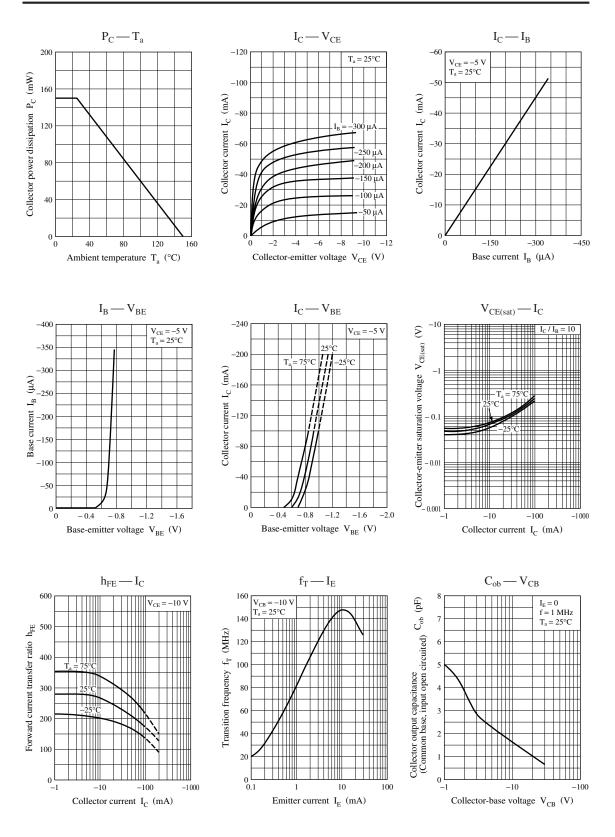
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

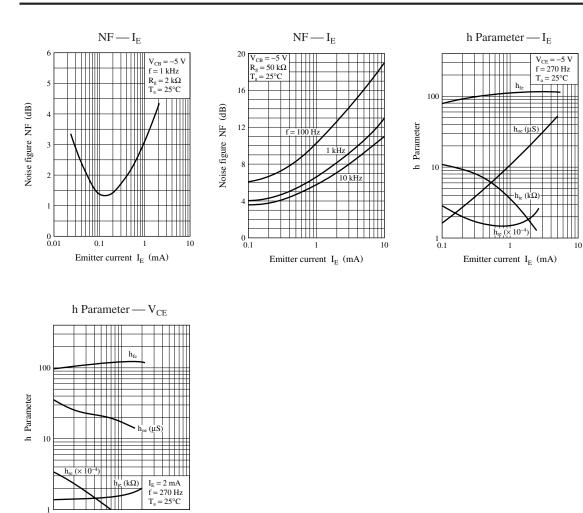
Rank	Q	R	S	No-rank
$h_{\rm FE}$	160 to 260	210 to 340	290 to 460	160 to 460
Marking symbol	BQ	BR	BS	В

Product of no-rank is not classified and have no marking symbol for rank.

Panasonic



Panasonic This product complies with the RoHS Directive (EU 2002/95/EC).



1 -10 -1Collector-emitter voltage V_{CE} (V)

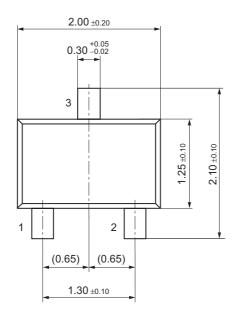
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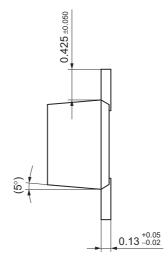
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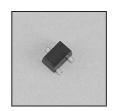
Panasonic

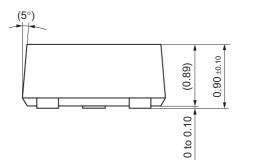
SMini3-F2

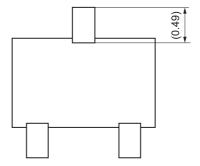
Unit: mm











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